

REMARKS

Entry of the foregoing amendments, and reexamination and reconsideration of the subject application, pursuant to and consistent with 37 C.F.R. §1.104 and §1.112, and in light of the following remarks, are respectfully requested.

Claim 4 has been amended; Claims 9 and 10 have been added; and consequently, Claims 1-10 are now present in this application.

Attached hereto is a marked version of the amended claims to show changes made by the current amendment. The attached page is captioned **"VERSION WITH MARKINGS TO SHOW CHANGES"**

In paragraph 1 of the Office Action the Examiner has objected to figure 1 of the drawings because a "Prior Art" legend is required. A proposed drawing correction is enclosed in a separate letter to the Draftsman.

Claim 4 stands rejected under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter of the invention, which rejection is respectfully

traversed. Claim 4 has been amended to particularly point out and distinctly claim the subject matter of the invention, there having been no rejection under 35 U.S.C. §112 of claims 1-3 and 5-8.

Claims 1-8 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Friedman in view of Terneu, which rejection is respectfully traversed. The present invention is used for preventing the spread of fire and assuring a safe escape route by providing a heat shield. Generally, during a fire the temperature ranges between 800°C and 900°, with an energy distribution of heat rays corresponding to a light having a wavelength that ranges between 2000nm and 3000nm. The present invention efficiently reflects such heat rays by providing a reflection film having a reflectance of 70% or more for a light having a wavelength of 2500nm.

Friedman et al (U.S.P. 5,908,704) teaches that "a surface treatment may be carried out for the heat-ray reflection." However, Friedman fails to disclose the particular surface treatment specified in the claims of the instant application. Friedman discloses "glazing" which is defined as "glasswork" and not a heat-ray reflective coating. Furthermore, it is not clear what type of heat radiation protection is intended. Heat radiation protection from the sun is very different from

heat radiation from a fire, which involves greater structural consideration than mere use.

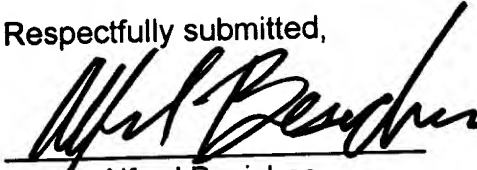
Terneu et al. (U.S.P. 4,687,687) discloses a film for reflecting infrared radiation having a long wavelength of 3000nm or more. This film is formed so as to suppress the heat radiating out of a room in order to improve heating of the room. Again this goes beyond mere use, as the shielding requirements are substantially different from those that involve shielding of infrared radiation having a short wavelength, as recited in the claims of the instant application. Further, Terneu discloses reflects visible light in one direction (i.e. one way mirror type, col. 5, lines 56-63). Additionally, neither reference discloses a double-glazing structure including an additional glass plate attached through an air layer, as recited in claim 8.

In order to further distinguish the present invention from the cited references, new claims 9 and 10 have been added, which are supported by example 1 of the present application. New claim 9 recites indium oxide film containing tin utilized as a heat-ray reflection film. Both Friedman and Terneu, alone or in combination thereof, fail to disclose such a film.

Indium oxide film containing tin is high in visible ray transmissivity, while at the same time providing high reflectance within a wavelength of range 2000nm to 3000nm.

In light of the foregoing, the application is now believed to be in proper form for allowance of all claims and notice to that effect is earnestly solicited. Reconsideration and allowance of the claims is respectfully solicited.

Respectfully submitted,


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- 37 CFR 1.8**

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DATE: August 10, 2001

NAME: Hamida Jaffer

SIGNATURE: HJaffer

Dated: August 10, 2001

Encl.: Letter to Draftsman with proposed drawing amendments of Fig. 1;
Marked reproduction of the amended original claims.

VERSION WITH MARKINGS TO SHOW CHANGES

4. (Amended) A fire protection glass product as claimed in claim 1, wherein said heat-ray reflection film is formed on at least one [of opposite] surface[s] of at least one of said fireproof glass plates.